

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	M109406	Client:	Alaskan Copper Works
Date Received:	01/11/07	Project:	PO# M109406, F&BI 701111
Date Extracted:	01/15/07	Lab ID:	701111-01 10x
Date Analyzed:	01/15/07	Data File:	701111-01.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	82	60	125
Bismuth	76	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	798
Nickel	894
Copper	357
Zinc	<50

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M109406, F&BI 701111
Date Extracted:	01/15/07	Lab ID:	I7-17 mb
Date Analyzed:	01/15/07	Data File:	I7-17 mb.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	94	60	125
Bismuth	92	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<5

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 01/24/07

Date Received: 01/11/07

Project: Metro Self Monitor, PO# M109406, F&amp;BI 701111

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL METALS BY EPA METHOD 200.8**

Laboratory Code: 701121-21 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	5.77	6.62	14	0-20
Copper	ug/L (ppb)	38.3	40.2	5	0-20
Zinc	ug/L (ppb)	266	292	9	0-20

Laboratory Code: 701121-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<1	89	50-150
Nickel	ug/L (ppb)	20	5.77	89 b	50-150
Copper	ug/L (ppb)	20	38.3	90 b	50-150
Zinc	ug/L (ppb)	50	266	94 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	96	70-130
Nickel	ug/L (ppb)	20	98	70-130
Copper	ug/L (ppb)	20	100	70-130
Zinc	ug/L (ppb)	50	109	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

701111

## SAMPLE CHAIN OF CUSTODY

ME 01/11/07

AIY

Send Report To

Gerald Thompson

Company

Alaskan Copper Works

Address

628 S. Harvard St

City, State, ZIP

Seattle WA 98134

Phone #

206-882-8579

Fax #

206-882-4309

SAMPLER'S (signature)

PROJECT NAME/NO.

Metro Self monitor

PO #

M/09406

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M/09406	01	1/11/06	12:30	H <sub>2</sub> O	1											

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Phan Phan

COMPANY

Aew

FeBI

DATE

1/11/07

1/11/07

TIME

1:55pm

V

Samples received at 9 °C



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 24, 2007

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 11, 2007 from the Metro Self Monitor, PO# M109406, F&BI 701111 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0124R

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 24, 2007



INVOICE #07ACU0124-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M109406, F&BI 701111 - Results of testing  
requested by Gerry Thompson for material submitted on January 11, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID #

(b) (6)